

What is claimed is:

1. Device for carrying article into and from container being characterized in comprising: a stage that is positioned close to one end opening of a container placed at a specific location and has a floor surface with a height approximately equal to a height of a floor surface of said container; a stage-side displacement means that is capable of lifting up and down a pallet loaded with article to said floor surface of said stage and supporting said pallet in such a way as to allow said pallet to move horizontally while keeping said pallet lifted up to said floor surface of said stage; and a container-side displacement means that is capable of lifting up and down said pallet to said floor surface of said container and supporting said pallet in such a way as to allow said pallet to move horizontally while keeping said pallet lifted up to said floor surface of said container; wherein receiving said pallet while keeping said pallet lifted up to said floor surface of said stage or said container is possible between said stage-side displacement means and said container-side displacement means.

2. Device for carrying article into and from container according to claim 1 further comprising an external force application means for a pallet that causes said pallet, which is supported in such a way as to be able to move horizontally by said stage-side displacement means, to move toward said container-side by applying an external force.

3. Device for carrying article into and from container according to claim 1 further comprising an external force application means for a pallet that causes said pallet, which is supported in such a way as to be able to move horizontally by

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said container-side displacement means, to move toward said stage-side by applying an external force.

4. Device for carrying article into and from container according to claim 1 further comprising an external force application means that causes said container-side displacement means to move between said stage and said container by applying an external force to said container-side displacement means.

5. Device for carrying article into and from container according to claim 1 wherein said stage-side displacement means is a lifting/sliding device comprising a sliding member that supports said pallet in such a way as to allow said pallet to move horizontally and a lifting member that lifts said sliding member.

6. Device for carrying article into and from container according to claim 1 wherein said container-side displacement means is a lifting/sliding device comprising a sliding member that supports said pallet in such a way as to allow said pallet to move horizontally and a lifting member that lifts said sliding member.

7. Device for carrying article into and from container according to claim 5 or 6 wherein said sliding member has multiple rollers arranged in parallel to each other.

8. Device for carrying article into and from container according to claim 5 or 6 wherein said lifting member comprises an expanding member that is capable of pushing up said sliding member by expanding itself when air is introduced.

9. Device for carrying article into and from container according to claim 1 wherein said stage has said floor surface with a height approximately equal to a height of said floor

10017505-121801

surface of said container installed on the ground.

10. Device for carrying article into and from container according to claim 1 wherein said stage has said floor surface with a height approximately equal to a height of said floor surface of said container mounted on a chassis of a truck.

11. Device for carrying article into and from container according to claim 1 wherein said pallet comprises a pallet main body, a connecting means that connects said pallet main body with a pallet main body of other pallet(s), and a bottom open space, which is open in a carrying direction, underneath said pallet, and is capable of forming a pallet combination unit that approximately matches a size of a floor space of said container by connecting with other pallet(s) as needed.

12. Method for introducing article into container using said device according to claim 1, in particular,

a method for introducing article into container characterized in placing a pallet preloaded with article to be transported on a floor surface of a stage, lifting up said pallet to said floor surface of said stage, moving said pallet toward a container placed at a specific location while keeping said pallet lifted up to said floor surface of said stage, and finally lowering said pallet to a floor surface of said container.

13. Method for introducing article into container according to claim 12 wherein said pallet is moved while keeping said pallet lifted up to said floor surface of said stage by multiple rollers, which are arranged in parallel to each other and pushed upward when compressed air is introduced.

14. Method for introducing article into container according

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to claim 12 wherein said pallet comprises a pallet main body and a connecting means so that said pallet main body can connect with a pallet main body of other pallet(s) thus allowing to form a pallet combination unit by connecting with other pallet(s) that approximately matches a size of a floor space of said container, and said pallet combination unit is placed on said floor surface of said stage.

15. Method for discharging article from container using said device according to claim 1, in particular,

a method for discharging article from container characterized in placing a container at a specified position relative to a stage, lifting up a pallet loaded with article to a floor surface of said container, moving said pallet toward said stage while keeping said pallet lifted up to said floor surface of said container, and finally lowering said pallet to a floor surface of said stage.

16. Method for discharging article from container according to claim 15 wherein said pallet is moved while keeping said pallet lifted up to said floor surface of said container by multiple rollers, which are arranged in parallel to each other and pushed upward when compressed air is introduced.

17. Method for discharging article from container according to claim 15 wherein said pallet comprises a pallet main body and a connecting means so that said pallet main body can connect with a pallet main body of other pallet(s) thus allowing to form a pallet combination unit by connecting with other pallet(s) that approximately matches a size of a floor space of said container, and said pallet combination unit is placed on said floor surface of said container.

10017505-121801

18. Pallet for carrying article, in particular, a pallet comprising a pallet main body, a connecting means that connects said pallet main body with a pallet main body of other pallet(s), and a bottom open space, which is open in a carrying direction, underneath said pallet, and is capable of forming a pallet combination unit that approximately matches a size of a floor space of said container by connecting with other pallet(s) as needed.

19. Pallet for carrying article according to claim 18 wherein said connecting means is provided in a corner of an article-carrying surface of said pallet main body.

20. Pallet for carrying article according to claim 18 wherein said bottom open space is a space for storing a lifting/sliding device for moving said pallet while keeping said pallet lifted up.

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